

NASA PRINCIPAL CENTER FOR REGULATORY RISK ANALYSIS AND COMMUNICATION

RRAC PC Overview
NASA Energy and Environmental Conference

Presentation Prepared by: Sharon Scroggins Manager RRAC Principal Center 24 September 2008





Agenda



- Principal Center History
- Overview of the Principal Center for Regulatory Risk Analysis and Communication (RRAC PC)
 - Roles and Responsibilities
 - Products Provided
 - Regulatory Tracking Process
 - Communications
 - Successes
 - Lessons Learned
 - Future



History



Clean Air Act (CAA) Principal Center

- Established ~ 2000
- Mission
 - Provide centralized information in support of NASA's CAArelated regulatory stakeholder activities
- Products
 - Regulatory updates to Centers as new regulations emerged
 - Monthly telecons with Center air program managers
- Evolution
 - CAA PC became a resource for sharing multimedia regulatory information



History (continued)



Evolution from CAA PC to RRAC PC

- NASA HQ Environmental Assurance initiative recognized the need to have a broad-based Agency-level environmental regulatory resource
- ➤ HQ expanded the role of the CAA PC in 2007 *Renamed CAA PC to RRAC PC to reflect expanded
 - *Renamed CAA PC to RRAC PC to reflect expanded scope
- RRAC PC scope now includes acting as the Agency-wide resource for identifying, analyzing and communicating regulatory change in all media

RRAC PC Organization

- Manager Sharon Scroggins
- > HQ Lead David Amidei
- Support Contractor CH2M HILL



RRAC PC Primary Roles



Provide centralized support to HQ Environmental Management Division (EMD)

- Lead NASA's regulatory change management process
 - Review emerging regulations
 - Track materials obsolescence drivers
- Regulatory impact evaluation and communication
- RRAC communication process serves as an operational control for both high and medium aspects in the NASA HQ EMS
- Provide a bridge between HQ Policy and HQ level action among regulators and the implementers at the Centers
- Interface to NASA Programs for regulatory risk analysis and interpretation
- Represent NASA interests to regulatory agencies
 - Provide expert technical guidance to EPA on regulatory risks to Program hardware and support facilities during rulemaking efforts
 - When necessary, work with NASA Programs and Facilities to seek regulatory relief



RRAC PC Focus in Perspective



Risks posed by the Program / Facility to the environment

- Identified under NEPA through the assessment and documentation process
- The NEPA document describes options and addresses environmental considerations associated with each, usually in a one-time effort

Risks posed <u>to</u> the Program / Facility by environmentally-related drivers

- On-going effort through the life of the Program or Facility
- Risk grows with time due to changes in laws and regulations
- Active participation in legislative and rulemaking processes reduces risks to NASA Programs / Facilities



Regulatory Change Can Drive Program and Facility Risks



Changing regulations have the potential to affect Program and Facility activities directly and indirectly

- Could restrict certain activities, operations, or right to operate
 - Changes in operational activities
 - High-efficiency spray equipment
 - Quantities of thinner allowed for coating application
 - Limitations on where or how operations can take place
 - In spray booths rather than "in the field"
 - Require dipping or brushing instead of spraying
 - Changes to personal protective equipment requirements
- Could affect availability and usage of materials
 - Production phase-out or restriction on ability to apply or use materials
 - ODSs, brominated flame retardants, and others
 - Formulation changes by vendors to critical materials and/or components
 - Despite contractual notification clauses, can happen without notification
 - May require material replacement efforts
 - Replacement costs; potential schedule impacts; potential performance variance



RRAC PC Products and Services



Regulatory Support for Materials and Operations

- Identify, analyze and communicate potential environmental risks (SSP and Cx)
- Support Space Shuttle Environmental Assurance (SEA) Team
- Support Ares and Orion design engineering

Rulemaking Activities

- Collaborate with EPA regarding emerging regulations with potential adverse programmatic impacts
 - NESHAPs, such as the Defense Land Systems and Miscellaneous Equipment (DLSME) National Emission Standards for Hazardous Air Pollutants
 - Stratospheric Ozone regulations, such as negotiations to allow continued access to mission-critical Ozone Depleting Substances (ODS)
- Participate in stakeholder technical working groups

ODS Coordination

- Cx and SSP HCFC 141b exemption support
 - Exemption Petitions & Annual Renewal, when needed
 - Semiannual HCFC 141b Usage Report
- Annual NASA Agency ODS progress report (replacement activities)



RRAC PC Products and Services (continued)



Environmental Regulatory Analysis and Monitoring

- Monitor emerging regulations
 - Federal and 11 States
 - Report on a bi-weekly basis
- Develop regulatory alerts, summaries, and updates on significant issues with potential NASA impact
- Prepare agency wide comments to proposed environmental rules
- Facilitate and document regulatory change management activities

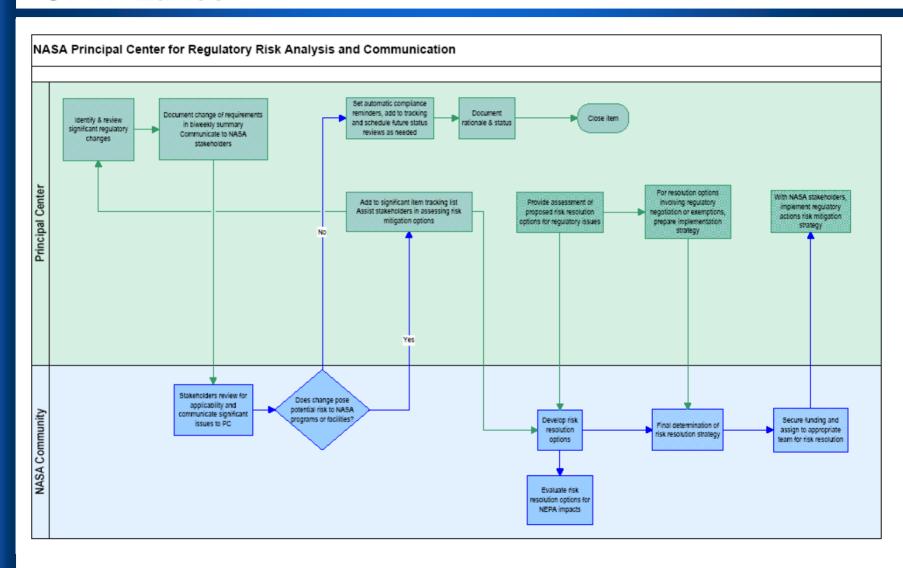
Lead Clean Air Act Working Group (CAAWG)

- Provide a forum for communicating environmental changes
- Website and monthly teleconferences are used for communication
- Face-to-face meetings



RRAC PC Regulatory Change Support "Swim Lanes"







RRAC PC Future Initiatives



- Continue to provide the NASA community multimedia environmental alerts
- Maintain an understanding of the environmental requirements and goals for each Center
 - Obtaining up-to-date ERDs*, environmental tracking matrixes, etc. to verify the RRAC PC is monitoring regulations that potentially apply to Center operations.
 - Potential site visits to each Center



RRAC PC Future Initiatives (continued) Regulatory Highlights



Climate Change

- GHG Inventory and Management
- Emerging legislative actions
- CAA Climate Change-related actions
- Impacts from international climate change treaties

Groundwater/Drinking Water

Emerging regulatory and legislative actions on perchlorate, trichloroethylene, and other chemicals

Hazardous Air Pollutants

Review and modification of existing Part 63 NESHAP requirements

Impacts from European Regulations

- REACH*
- ➤ RoHS**

Support for unfunded liabilities assessments

NAAQS Modifications

Changes to ozone standard means changing nonattainment areas and possible impacts to Programs and Facilities

Stratospheric Ozone

- Program and Facility impacts from continuing ODS phase-out
- Continuing use of mission-critical ODS

^{*}REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
**RoHS = Restriction on Hazardous Substances



RRAC PC Lessons Learned



- Programs and Centers are dynamic... so are regulations
 - Just because regulations may not initially apply does not mean they will not in the future
 - Just because regulations may not directly affect operations does not mean they won't affect the program indirectly through the supply chain
- Communication is key when it comes to regulatory impacts
 - Up and down the chain of command to ensure the right organizations and people are informed
- Maintaining a "do the right thing" commitment is critical to the long-term success of programs and should be a significant part of a strategy for compliance



Questions?



For further information, please contact:

Sharon Scroggins

Manager, RRAC PC 256-544-7932

sharon.scroggins @nasa.gov
http://www.rracpc.org

You Are Invited!

Clean Air Act Working Group Meeting
9:00 am Tomorrow
Wyeth Room